

SECTION 09 54 26
BIOLINE™ Wood Ceiling Tiles

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Solid finish wood veneer ceiling tiles.

EDIT NOTE: SELECT TILE ABOVE OR BELOW. IF USING BOTH TYPES ON PROJECT, INDICATE ON DRAWINGS WHERE TILES ARE SCHEDULED.

2. Organic textured fiber ceiling tiles.

- B. Related Sections:

EDIT NOTE: ADD OR DELETE SECTIONS PER PROJECT REQUIREMENTS.

1. Section 09 53 00 – Acoustical Ceiling Suspension Systems.
2. Section 09 51 00 – Acoustical Ceilings.
3. Section 09 21 16 – Gypsum Board Assemblies.
4. Division 21 – Fire Suppression.
5. Division 23 – Mechanical. Diffusers, vents, and other mechanical items.
6. Division 26 – Electrical. Lights and other ceiling mounted electrical items.

1.2 SYSTEM DESCRIPTION

- A. Acoustical Performance Requirements:
1. NRC (Noise Reduction Coefficient): Comply with ASTM C423-90a.

1.3 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Manufacturer's technical data for each type of ceiling tile including finishes and the following:
1. Manufacturer's installation instructions.
 2. Certified test reports indicating compliance with Performance Requirements specified herein.
- C. Samples: 2 full size sets of Samples of each specified tile for color selection or verification.
- D. Closeout Submittals: Comply with Section 01 77 00 – Closeout Procedures.
1. Operating and Maintenance Manual, including cleaning and maintenance instructions.
 2. Extra Material for Owner's stock.
 3. Material Safety Data Sheets (MSDS).

1.4 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain tile units for entire Project from a single manufacturer.
- B. Manufacturer's Qualifications: Firm with not less than 5 years experience in manufacturing of products similar in complexity to those required for this Project.
- C. Installer's Qualifications: Firm with not less than 5 years experience in installation of products similar in complexity to those required for this Project, including specific requirements indicated.
1. Successfully completed not less than 5 comparable scale projects.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with Section 01 60 00 – Product Requirements.
- B. Deliver and store materials in manufacturer's original unopened containers with brands, names, and production lot numbers clearly marked on these containers.
- C. Storage and Protection: Comply with manufacturer's recommendations.
 - 1. Store products in a cool, dry place out of direct sunlight.
 - 2. Protect from elements and from damage.

1.6 PROJECT CONDITIONS

- A. Environmental Requirements within building:
 - 1. Tiles do not require special environmental conditions.
 - 2. Systems may be installed at any stage of construction.

1.7 WARRANTY

- A. Provide manufacturer's written warranty per Section 01 77 00 – Closeout Procedures.

1.8 MAINTENANCE

- A. Extra Materials:
 - 1. Deliver not less than the following quantity of each type, color, and pattern of material, exclusive of material required to properly complete installation.

EDIT NOTE: RETAIN AMOUNT OF EXTRA MATERIALS USED ON PROJECT. DELETE THIS ARTICLE OF NO EXTRA MATERIALS REQUIRED OR ACCEPTABLE.

- a. 3 percent.
 - b. 5 percent.
 - c. 1 carton.
 - 2. Furnish Extra Materials from same production run to verify run for color.
 - 3. Package replacement materials with protective covering, identified with appropriate labels.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide products from :
 - 1. ArtUSA
2775 Bankers Ind Drive
Atlanta GA 30366
Telephone: 888-454-6975

Fax: 770-246-7860
Website: www.noisecontrolproducts.com
E-mail: sales@noisecontrolproducts.com
- B. Substitutions: Comply with Section 01 60 00 – Product Requirements.

2.2 MANUFACTURED UNITS

- A. Solid-Finish Wood Ceiling Tiles: Wood ceiling tiles manufactured from 70 percent recycled, post-industrial material by weight.
 - 1. Core: Manufacturer's standard medium density fiberboard with solid color throughout. Edge banding is not required.

2. Fire resistance: Class 1 per ASTM E84.

EDIT NOTE: RETAIN TILE SIZE REQUIRED FOR PROJECT AND DELETE SIZES NOT REQUIRED.

3. Size: Nominal 24 inch by 24 inch (610 mm by 610 mm).
4. Size: Nominal 24 inch by 48 inch (610 mm by 1219 mm).
5. Size: Custom sizes indicated on drawings.
6. Tile Thickness: 5/8 inch (12.7 mm) total thickness.
7. Edge: Self-centering reveal.

EDIT NOTE: RETAIN TILE EDGE ABOVE OR BELOW AS REQUIRED FOR PROJECT. REVEAL IS STANDARD AND SQUARE IS OPTIONAL.

8. Edge: Square.

EDIT NOTE: SELECT ONE OF THE FOLLOWING TILE VENEERS INDICATED BELOW. DELETE VENEERS NOT REQUIRED FOR PROJECT.

9. Face: Smooth wood veneer of species of the following:
 - a. Cherry Natural and Red.
 - b. Beach.
 - c. Maple.
 - d. Bamboo Natural and Caramel.
 - e. Custom wood veneer to match Architect's sample.
10. Finish: Manufacturer's standard stain.
11. Acceptable Product: BIOLINE Solid Finish Wood Ceiling Tiles.

B. Perforated Solid-Finish Wood Ceiling Tiles: Perforated wood ceiling tiles manufactured from 70 percent recycled, post-industrial material by weight.

1. Core: Manufacturer's standard medium density fiberboard with solid color throughout. Edge banding is not required.
2. Fire resistance: Class 1 per ASTM E84.
3. NRC: 0.40.

EDIT NOTE: RETAIN TILE SIZE REQUIRED FOR PROJECT AND DELETE SIZES NOT REQUIRED.

4. Size: Nominal 24 inch by 24 inch (610 mm by 610 mm).
5. Size: Nominal 24 inch by 48 inch (610 mm by 1219 mm).
6. Size: Custom sizes indicated on drawings.
7. Tile Thickness: 5/8 inch (12.7 mm) total thickness.
8. Edge: Self-centering reveal.

EDIT NOTE: RETAIN TILE EDGE ABOVE OR BELOW AS REQUIRED FOR PROJECT. REVEAL IS STANDARD AND SQUARE IS OPTIONAL.

9. Edge: Square.

EDIT NOTE: SELECT ONE OF THE FOLLOWING TILE VENEERS INDICATED BELOW. DELETE VENEERS NOT REQUIRED FOR PROJECT.

10. Face: Smooth wood veneer of species of the following:
 - a. Cherry Natural and Red.
 - b. Beach.
 - c. Maple.
 - d. Bamboo Natural and Caramel.
 - e. Custom wood veneer to match Architect's sample.
11. Finish: Manufacturer's standard stain.

12. Perforations and Patterns: Provide ceiling tiles with the following perforation style and pattern:
 - a. Perforation: 0.25 inch (6.4 mm).
 - b. Perforation: 0.31 inch (8 mm).
 - c. Pattern: Diamond.
 - d. Pattern: Square.
 13. Acceptable Product: BIOLINE Solid Finish Wood Ceiling Tiles.
- C. Organic-Texture Wood Ceiling Tiles: Textured fiber wood ceiling tiles manufactured from 80 percent recycled, post-industrial material by weight.
1. Fire resistance: Class 1 per ASTM E84.
 2. Flame Spread: 25.
 3. Smoke Density: 70.

EDIT NOTE: RETAIN ONE OF THE FOLLOWING THREE NOISE REDUCTION COEFFICIENTS AND DELETE THOSE NOT REQUIRED FOR PROJECT.

4. NRC: 0.55 per ASTM C423 Type E mounting.
5. NRC: 0.65 per ASTM C423 Type E mounting.
6. NRC: 0.80 per ASTM C423 Type A mounting.
7. Sound Insulation: Acoustical foam of fiberglass recommended by tile manufacturer to obtain NRC required for project.

EDIT NOTE: RETAIN TILE SIZE REQUIRED FOR PROJECT AND DELETE SIZES NOT REQUIRED.

8. Size: Nominal 24 inch by 24 inch (610 mm by 610 mm).
9. Size: Nominal 24 inch by 48 inch (610 mm by 1219 mm).
10. Size: Nominal 24 inch by 72 inch (610 mm by 1829 mm).
11. Size: Custom sizes indicated on drawings.
12. Tile Thickness: 3/4 inch (19 mm) total thickness.
13. Edge: Self-centering reveal.

EDIT NOTE: RETAIN TILE EDGE ABOVE OR BELOW AS REQUIRED FOR PROJECT. REVEAL IS STANDARD AND SQUARE IS OPTIONAL.

14. Edge: Square.
15. Face: Natural.

EDIT NOTE: SELECT ONE OF THE FOLLOWING FOUR FINISHES. DELETE THOSE NOT USED FOR PROJECT.

16. Finish: Manufacturer's standard in the following color:
 - a. Light.
 - b. Medium.
 - c. Dark.
17. Acceptable Product: BIOLINE Organic-Texture Wood Ceiling Tiles.

2.3 SUSPENSION SYSTEM

- A. Suspension System: Refer to Section 09 53 00 – Acoustical Ceiling Suspension Assemblies for acoustical tile support system.

EDIT NOTE: RETAIN PARAGRAPH ABOVE OR BELOW. 15/16 INCH GRID IS RECOMMENDED BY TILE MANUFACTURER.

- B. Suspension System: [Insert acoustical tile ceiling system suspension system specifications here.]

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper and or timely completion.
 - 1. Do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's instructions and recommendations for installation of acoustical tiles:
 - 1. Coordinate with mechanical and electrical in locating and spacing fixtures, diffusers, and similar items located in ceiling.
 - 2. Lay out pattern per reflected ceiling drawings. Where not otherwise indicated, lay out in such manner that margins on opposite sides of rooms are equal or greater than 1/2 tile in width.
 - 3. Where acoustical ceilings of different heights abut, install acoustical material matching ceiling at vertical surface at ceiling break match ceiling, unless otherwise indicated.
- B. Suspension system: Refer to Section 09 53 00 – Acoustical Ceiling Suspension Assemblies for installation requirements.

RETAIN PARAGRAPH ABOVE OR BELOW PER PROJECT REQUIREMENTS.

- C. Suspension System: [Insert acoustical tile ceiling system suspension system installation requirements here.]
- D. Acoustical Tiles:
 - 1. Refer to manufacturer's written installation instructions.
 - 2. Install tiles with proper faces exposed.
 - 3. Install lay in acoustical ceiling tiles flush and level in suspension system.
 - 4. Install tiles with hand protection to avoid soiling.

3.3 CLEANING

- A. Clean adjacent surfaces and remove unused product and debris from site.
- B. After installation is completed, clean soiled surfaces of materials.
- C. Remove and reinstall improperly installed material.
- D. Remove damaged or discolored material, or material that cannot be properly cleaned, and install new material.

END OF SECTION